



VIA ELECTRONIC MAIL

February 5, 2021

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 7
615 Erie Boulevard West
Syracuse, New York 13204-2400
Attn: Karen A. Cahill, Project Manager

**Subject: Former Emerson Power Transmission (EPT), Ithaca, NY Site No. 755010
Quarterly Free Product Surveillance Report No. 026 – Third and Fourth Quarter 2020
620 South Aurora Street, Ithaca, New York**

Dear Karen:

On behalf of Emerson, WSP USA Inc. is submitting Quarterly Free Product Surveillance Report No. 026 for the former Emerson Power Transmission site located in Ithaca, New York. This report summarizes the semi-annual free product monitoring and recovery activities for the third and fourth quarter (July through November) of 2020 at groundwater wells that have free product present in them which include MW-8B, HISTWELL-1, LBA-MW-35, and LBA-MW-39, as shown on enclosed Figure 1. In a letter dated September 2, 2020, the New York State Department of Environmental Conservation approved reducing the reporting frequency from quarterly to semi-annual. During the third quarter 2020 (October to December), beginning in November 2020 free product monitoring was completed quarterly. The use of absorbent socks continuously collected free product throughout the quarter, and are replaced quarterly.

SUMMARY OF RELEVANT FINDINGS

Monthly groundwater elevation and light-phase free product monitoring and recovery were conducted on July 24, August 6, September 30, and November 19, 2020. Free product recovery is conducted using free product absorbent socks at each location and bailers, where appropriate. Following the retrieval of the free product absorbent socks, a new free product absorbent sock is deployed at each location to collect the free product.

MW-8B FREE PRODUCT MONITORING & RECOVERY

Free product was detected in well MW-8B with apparent thicknesses of 0.01-feet (July; Table 1), 0.04-feet (September; Table 1), and 0.02-feet (November; Table 1). No free product was detected during the August event. In total, 1.15 gallons of the free product was recovered during this reporting period; a total of 15.79 gallons of the free product have been removed since recovery was initiated in August 2016 (Table 1).

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HISTWELL-1 FREE PRODUCT MONITORING & RECOVERY

Free product was detected in HISTWELL-1 with an apparent product thickness of 0.02-feet (July; Table 2), 0.18-feet (September; Table 2), and 0.03-feet (November; Table 2). No free product was detected during August. In total, 0.59 gallons of the free product was recovered during this reporting period; a total of 19.90 gallons of the free product have been removed since recovery was initiated in January 2016 (Table 2).

LBA-MW-35 FREE PRODUCT MONITORING & RECOVERY

Free product was detected in LBA-MW-35 with an apparent thickness of 0.04-feet (September; Table 3), and 0.02-feet (November; Table 3). No free product was detected during the July or August event. In total, 1.49 gallons of the free product was recovered during this reporting period; a total of 8.47 gallons of the free product have been removed since recovery was initiated in October 2018 (Table 3).


LBA-MW-39 FREE PRODUCT MONITORING & RECOVERY

Free product was detected in LBA-MW-39 with an apparent thickness of 0.12-feet (July; Table 4), and 0.03-feet (September; Table 4). No free product was detected during the August or November events. In total, 1.78 gallons of the free product was recovered during this reporting period; a total of 4.07 gallons of the free product have been removed since recovery was initiated in October 2018 (Table 4).


Subsequent quarterly reports will continue to provide updates on the free product monitoring and recovery at groundwater wells that have free product present. As requested by the New York State Department of Environmental Conservation, free product measurements will also be reported in the semi-annual Progress Reports.

Please do not hesitate to contact me at (724) 882-9723 with any questions or concerns.

Sincerely yours,



Jeffrey Baker
Lead Consultant



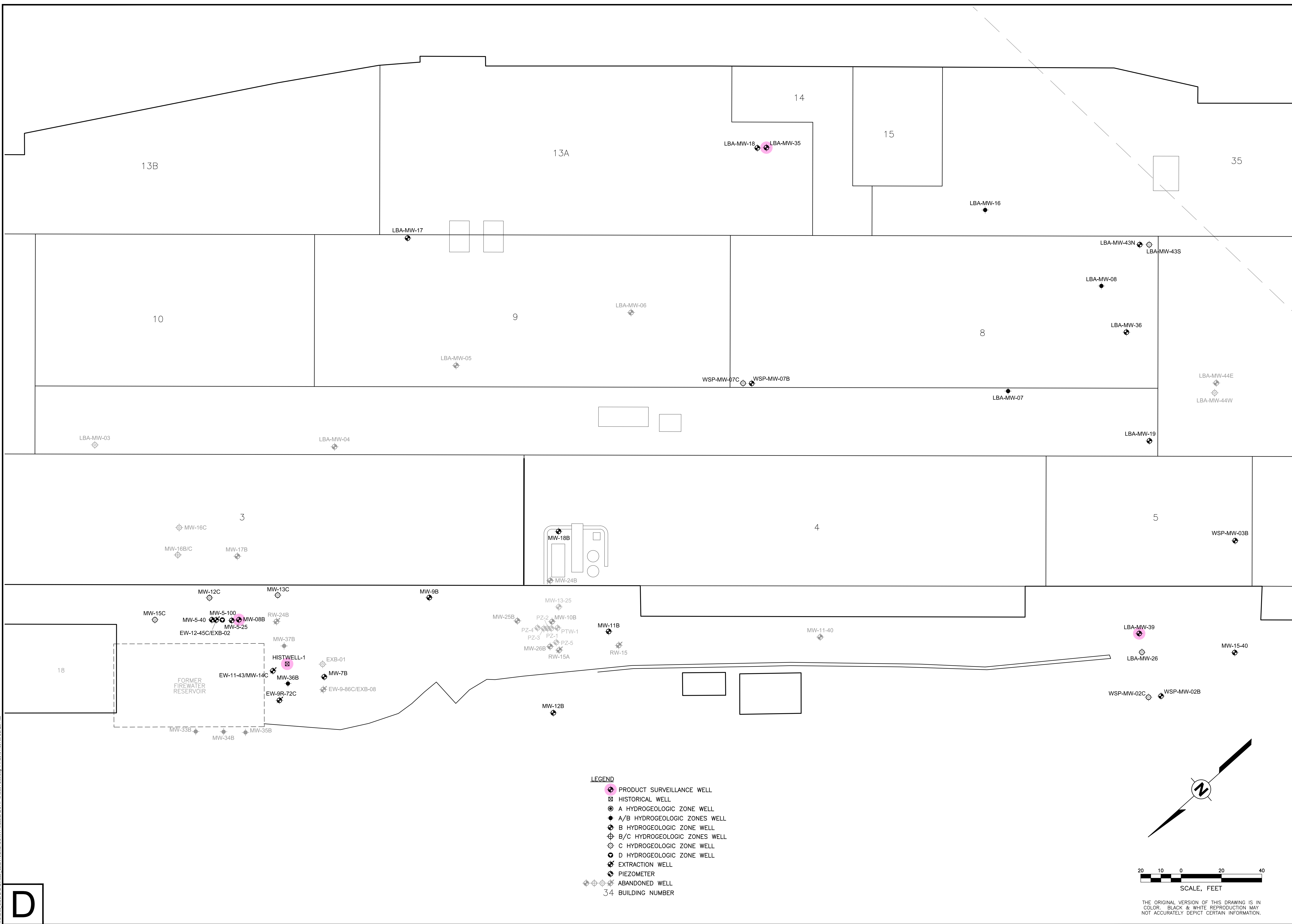
Scott Hartz
Vice President and Practice Lead

NTW: JRB

\\USHRN1SER01\es\Clients\Emerson\ITHACA\Product Surveillance and Recovery\2020 NYSDEC\3Q and 4Q
Enclosures

cc/encl.: Steven Karpinski, NYSDOH
Steve Clarke, Emerson

FIGURE



REVISIONS	
REV	DESCRIPTION

DRAWN BY CHECKED APPROVED	SEAL DATE
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PRODUCT SURVEILLANCE WELLS
FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK
 PREPARED FOR
 EMERSON
 ST. LOUIS, MISSOURI


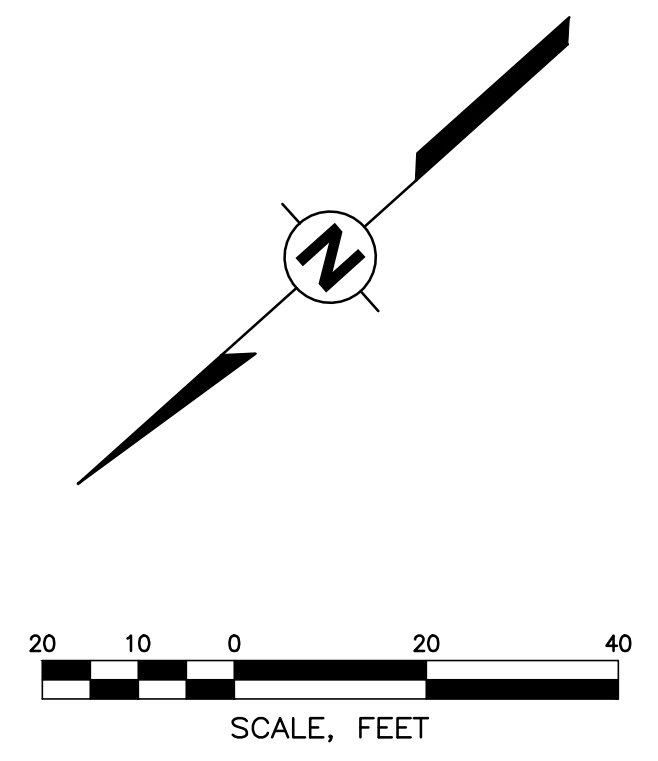

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FIGURE 1
 Drawing Number
314P1545.001-D09



THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK & WHITE REPRODUCTION MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.

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TABLES

Table 1

**Product Monitoring and Removal Summary - MW-8B
Former Emerson Power Transmission Facility
Ithaca, New York
Third and Fourth Quarter 2020 (a)**

Well Identification:		MW-8B											
Casing Diameter (inches):		4.00											
Top of Casing (ft asml) (b):		586.08											
Total Depth (feet):		21.30											
Date (e)	Depth to Product (ft btoc)	Depth to Water (ft btoc, b)		Apparent Product Thickness (feet)	Apparent Product Volume (gallons)	Groundwater Elevation (ft asml)	Product Removal (gallons)				Water Removed (gallons)		
		Measured	Corrected				Bailer	Absorbent Sock	Total Monthly	Total Cumulative	Total Monthly	Total Water Bailed	
Previous to 3rd and 4th Quarter 2020	-	-	-	-	-	-	-	-	-	-	14.64	-	1.45
July 24, 2020	10.12	10.13	10.12	0.01	0.00	576.52	0.00	0.17	0.17	14.82	14.64	0.02	1.46
August 6, 2020	NM	10.88	10.88	-	-	575.76	0.00	0.12	0.12	14.93	14.82	0.01	1.48
September 30, 2020	10.81	10.85	10.81	0.04	0.01	575.83	0.00	0.19	0.19	15.12	14.93	0.02	1.49
November 19, 2020	9.60	9.62	9.60	0.02	0.00	577.04	0.00	0.67	0.67	15.79	15.12	0.07	1.56

- a/ Abbreviations: NM = no measureable product; "-" = not applicable; "--" = measurement not taken; ft btoc = feet below top of casing; asml = above mean sea level; ft asml = feet asml; LNAPL = light non-aqueous phase liquid.
- b/ All depth to water measurements were corrected to account for the depression caused by the weight of the light phase free product. For correction of the depth to water, the free phase product specific gravity of 0.90 was used.
- e/ Measurements were collected monthly until September 2020 and after September 2020 measurements were collected quarterly. Free product was continuously collected using sorbent socks.

Table 2

**Product Monitoring and Removal Summary - HISTWELL-1
Former Emerson Power Transmission Facility
Ithaca, New York
Third and Fourth Quarter 2020 (a)**

Well Identification:		HISTWELL-1											
Casing Diameter (inches):		2.00											
Top of Casing (ft asml) (b):		586.08											
Total Depth (feet):		138.30											
Date (d)	Depth to Product (ft btoc)	Depth to Water (ft btoc, c)		Apparent Product Thickness (feet)	Apparent Product Volume (gallons)	Groundwater Elevation (ft asml)	Product Removal (gallons)				Water Removed (gallons)		
		Measured	Corrected				Bailer	Absorbent Sock	Total Monthly	Total Cumulative	Total Monthly	Total Water Bailed	
Previous to 3rd and 4th Quarter 2020	-	-	-	-	-	-	-	-	-	-	19.31	-	289.30
July 24, 2020	119.10	119.12	119.10	0.02	0.00	466.98	0.00	0.08	0.08	19.39	0.00	0.00	289.30
August 6, 2020	NM	118.03	118.03	-	-	468.05	0.00	0.08	0.08	19.47	0.00	0.00	289.30
September 30, 2020	120.01	120.19	120.03	0.18	0.03	466.05	0.00	0.14	0.14	19.61	0.00	0.00	289.30
November 19, 2020	118.41	118.44	118.41	0.03	0.00	467.67	0.00	0.30	0.30	19.90	0.00	0.00	289.30

- a/ Abbreviations: NM = no measureable product; "-" = not applicable; "--" = measurement not taken; ft btoc = feet below top of casing; asml = above mean sea level; ft asml = feet asml; LNAPL = light non-aqueous phase liquid.
- b/ Elevation of 8-inch steel outer casing; polyvinyl chloride casing not surveyed.
- c/ All depth to water measurements were corrected to account for the depression caused by the weight of the light phase free product. For correction of the depth to water, the free phase product specific gravity of 0.90 was used.
- d/ Measurements were collected monthly until September 2020 and after September 2020 measurements were collected quarterly. Free product was continuously collected using sorbent socks.

Table 3

**Product Monitoring and Removal Summary - LBA-MW-35
Former Emerson Power Transmission Facility
Ithaca, New York
Third and Fourth Quarter 2020 (a)**

Well Identification:		LBA-MW-35											
Casing Diameter (inches):		2.00											
Top of Casing (ft asml):		612.59											
Total Depth (feet):		32.00											
Date (c)	Depth to Product (ft btoc)	Depth to Water (ft btoc, b)		Apparent Product Thickness (feet)	Apparent Product Volume (gallons)	Groundwater Elevation (ft asml)	Product Removal (gallons)				Water Removed (gallons)		
		Measured	Corrected				Bailer	Absorbent Sock	Total Monthly	Total Cumulative	Total Monthly	Total Water Bailed	
Previous to 3rd and 4th Quarter 2020	-	-	-	-	-	-	-	-	-	-	6.98	-	0.00
July 24, 2020	NM	5.14	5.14	-	-	607.45	0.00	0.27	0.27	7.25	0.00	0.00	0.00
August 6, 2020	NM	4.80	4.80	-	-	607.79	0.00	0.12	0.12	7.37	0.00	0.00	0.00
September 30, 2020	4.88	4.92	4.88	0.04	0.01	607.71	0.00	0.17	0.17	7.54	0.00	0.00	0.00
November 19, 2020	4.70	4.72	4.70	0.02	0.00	607.89	0.00	0.93	0.93	8.47	0.00	0.00	0.00

- a/ Abbreviations: NM = no measureable product; "-" = not applicable; "--" = measurement not taken; ft btoc = feet below top of casing; asml = above mean sea level; ft asml = feet asml; LNAPL = light non-aqueous phase liquid.
- b/ All depth to water measurements were corrected to account for the depression caused by the weight of the light phase free product. For correction of the depth to water, the free phase product specific gravity of 0.90 was used.
- c/ Measurements were collected monthly until September 2020 and after September 2020 measurements were collected quarterly. Free product was continuously collected using sorbent socks.

Table 4

**Product Monitoring and Removal Summary - LBA-MW-39
Former Emerson Power Transmission Facility
Ithaca, New York
Third and Fourth Quarter 2020 (a)**

Well Identification:		LBA-MW-39											
Casing Diameter (inches):		2.00											
Top of Casing (ft asml) (b):		583.06											
Total Depth (feet):		25.50											
Date (c)	Depth to Product (ft btoc)	Depth to Water (ft btoc, b)		Apparent Product Thickness (feet)	Apparent Product Volume (gallons)	Groundwater Elevation (ft asml)	Product Removal (gallons)				Water Removed (gallons)		
		Measured	Corrected				Bailer	Absorbent Sock	Total Monthly	Total Cumulative	Total Monthly	Total Water Bailed	
Previous to 3rd and 4th Quarter 2020	-	-	-	-	-	-	-	-	-	-	2.29	-	0.00
July 24, 2020	18.32	18.44	18.33	0.12	0.02	564.73	0.00	0.44	0.44	2.73	0.00	0.00	0.00
August 6, 2020	NM	20.63	20.63	-	-	562.43	0.00	0.13	0.13	2.86	0.00	0.00	0.00
September 30, 2020	19.55	19.58	19.55	0.03	0.00	563.51	0.00	0.33	0.33	3.19	0.00	0.00	0.00
November 19, 2020	NM	19.05	19.05	-	-	564.01	0.00	0.88	0.88	4.07	0.00	0.00	0.00

- a/ Abbreviations: NM = no measureable product; "-" = not applicable; "--" = measurement not taken; ft btoc = feet below top of casing; asml = above mean sea level; ft asml = feet asml; LNAPL = light non-aqueous phase liquid.
- b/ All depth to water measurements were corrected to account for the depression caused by the weight of the light phase free product. For correction of the depth to water, the free phase product specific gravity of 0.90 was used.
- c/ Measurements were collected monthly until September 2020 and after September 2020 measurements were collected quarterly. Free product was continuously collected using sorbent socks.